Appl. No.

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AMENDMENTS TO THE CLAIMS

Please cancel Claims 5-17 and add new Claims 18-20.

1. (Original) A process of growing a thin film of Al₂O₃ on a substrate by a sequential vapor deposition process comprising a plurality of cycles, each cycle comprising:

exposing the part to gaseous trimethyl aluminum (TMA);

stopping provision of the gaseous TMA;

removing gaseous TMA from the chamber;

exposing the part to atomic oxygen; and

removing atomic oxygen from the chamber,

wherein in each cycle more than one monolayer of Al₂O₃ is formed.

- 2. (Original) The process of claim 1, wherein in each cycle a layer of Al₂O₃ 3 Å thick is formed.
- 3. (Original) The process of Claim 1, wherein the oxygen radicals are generated remotely in a radical generator.
- 4. (Original) The process of Claim 1, wherein the process is carried out at room temperature.
 - 5. 17. (Cancelled)
- 18. (New) A process of growing a thin film of Al₂O₃ on a substrate by a sequential vapor deposition process comprising a plurality of cycles, each cycle comprising:

exposing the part to gaseous trimethyl aluminum (TMA);

stopping provision of the gaseous TMA;

removing gaseous TMA from the chamber; and

exposing the part to atomic oxygen.

- 19. (New) The process of Claim 18, wherein the radicals are generated remotely in a radical generator.
- 20. (New) The process of Claim 18, wherein the process is carried out at room temperature.